WIRELESS 868 MHz WEATHER STATION

Instruction Manual

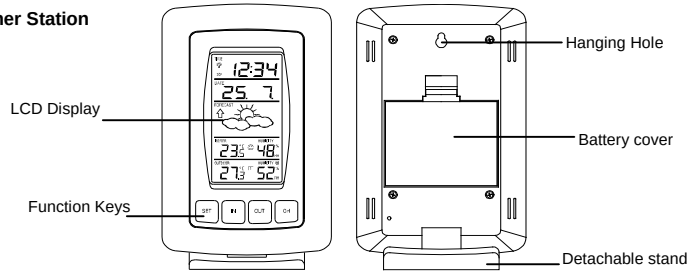
INTRODUCTION:

Congratulations on purchasing this Weather Station with wireless 868MHz transmission of outdoor temperature and humidity and display of indoor temperature and humidity. It is further featuring a DCF-77 radio controlled clock with date display. With four easy to use function keys, this innovative product is ideal for use in the home or office.

« Instant Transmission+» is the up and coming state-of-the-art new wireless transmission technology, exclusively designed and developed by LA CROSSE TECHNOLOGY.
"IT +" offers you an immediate update of all your outdoor data measured from the transmitters: follow your climatic variations in real-time!

FEATURES:

The Weather Station



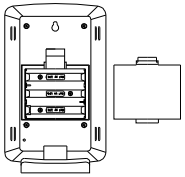
- DCF-77 Radio controlled time with manual setting options
- Time reception ON/OFF
- 12/24 hour display
- Hour and minute display, seconds indicated by flashing dot
- Time zone option ±12hours
- Date and month / weekday and date calendar display selectable
- Weather forecasting with 3 weather icons and weather tendency indicator
- Weather forecasting icon sensitivity setting
- Temperature display in degrees Celsius (℃) or Fahr enheit (℉) selectable
- Indoor and outdoor temperature display with MIN/MAX recording

- Indoor and outdoor humidity reading displayed as RH% with MIN/MAX recordings
- All MIN/MAX temperature recordings show date and time received
- All MIN/MAX recordings can be reset
- Indoor comfort level indicator - happy or sad face icons
- Can take up to three outdoor transmitters
- LCD contrast setting
- Low battery indicator
- Wireless transmission at 868 MHz
- Signal reception intervals at 4 seconds
- Wall mounting or table standing

The Thermo-Hygro Outdoor Transmitter

- Remote transmission of outdoor temperature and humidity to Weather Station by 868 MHz
- Display alternately the outdoor temperature and humidity readings on LCD
- Shower proof casing
- Wall mounting case (Mounting at a sheltered place. Avoid direct rain and sunshine)

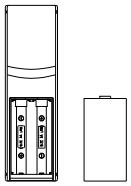
HOW TO INSTALL AND REPLACE BATTERIES IN THE WEATHER STATION



The Weather station uses 3 x AA, IEC LR6, 1.5V batteries. When batteries will need to be replaced, the low battery icon will appear on the LCD. To install and replace the batteries, please follow the steps below:

1. Insert finger or other solid object in the space at the bottom center of the battery compartment and lift up to remove the cover.
2. Insert batteries observing the correct polarity (see marking).
3. Replace compartment cover.

HOW TO INSTALL AND REPLACE BATTERIES IN THE THERMO-HYGRO OUTDOOR TRANSMITTER



The Thermo-hygro transmitter uses 2 x AA, IEC LR6, 1.5V battery. To install and replace the batteries, please follow the steps below:

1. Remove the battery compartment cover.
2. Insert the batteries, observing the correct polarity (see marking).
3. Replace the battery compartment cover on the unit.

Note:

In the event of changing batteries in any of the units, all units need to be reset by following the setting up procedures. This is because a random security code is assigned by the transmitter at start-up and this code must be received and stored by the Weather station in the first 3 minutes of power being supplied to it

BATTERY CHANGE:

It is recommended to replace the batteries in all units on an annual basis to ensure optimum accuracy of these units.

Please participate in the preservation of the environment. Return used batteries to an authorised depot.

SETTING UP:

WHEN ONE TRANSMITTER IS USED

1. First, insert the batteries in the transmitter (see "**How to install and replace batteries in the Termo-hygro outdoor transmitter**" above).
2. Within 2 minutes of powering up the transmitter, insert the batteries in the Temperature Station (see "**How to install and replace batteries in the Weather Station**" above). Once the batteries are in place, all segments of the LCD will light up briefly and a short signal tone will sound. Following the indoor temperature/humidity and the time as 0:00 will be displayed. If these information are not displayed on the LCD after 60 seconds, remove the batteries and wait for at least 60 seconds before reinserting them. Once the indoor data is displayed user may proceed to the next step.
3. After the batteries are inserted, the Weather station will start receiving data signal from the transmitter. The outdoor temperature and humidity data should then be displayed on the Weather station. If this does not happen after 2 minutes, the batteries will need to be removed from both units and reset from step 1.
4. In order to ensure sufficient 868 MHz transmission however, the distance between the Weather Station and the transmitter should not be more than 100 meters (see notes on "**Positioning" and "868 MHz Reception**").

Note: In the event of changing batteries of the units, ensure the batteries do not spring free from the contacts. Always wait at least 1 minute after removing the batteries before reinserting, otherwise start up and transmission problems may occur.

WHEN MORE THAN ONE TRANSMITTER IS USED

1. User shall remove all the batteries from the Weather Station and transmitters, and wait 60 seconds.
2. Insert the batteries in the first transmitter.
3. Within 2 minutes of powering up the first transmitter, insert the batteries in the Weather Station. Once the batteries are in place, all segments of the LCD will light up briefly and a short signal tone will sound. Following the indoor temperature/humidity and the time as 0:00 will be displayed. If this information is not displayed on the LCD after 60 seconds, remove the batteries from both units and wait for at least 60 seconds before reinserting them.
4. The outdoor temperature and humidity data from the first transmitter (channel 1) should then be displayed on the Weather Station. Also, the signal reception icon will be displayed. If this does not happen after 2 minutes, the batteries will need to be removed from both units and reset from step 1.
5. Insert the batteries in the second transmitter as soon as the outdoor temperature and humidity readings from the first transmitter are displayed on the Weather Station.
   Note : User shall insert the batteries into the second transmitter within 45 seconds after the Weather Station displays the information of the first transmitter.
6. The outdoor temperature and humidity from the second transmitter and the "channel 2" icon should then be displayed on the Weather Station. If this does not happen after 2 minutes, the batteries will need to be removed from all the units and reset from step 1.
7. Insert the batteries in the third transmitter as soon as the "channel 2" icon and outdoor data are displayed on the Weather Station. Then within 2 minutes, the channel 3 outdoor data from the third transmitter will be displayed and the channel icon will shift back to "1" once the third transmitter is successfully received. If this does not happen, user shall restart the setting up from step 1.
   Note : User shall insert the batteries into the third transmitter within 45 seconds after the Weather Station displays the information of the first transmitter. Or immediately after reception of the second transmitter is

finished.

8. In order to ensure sufficient 868 MHz transmission however, the distance between the Weather Station and the transmitter should not be more than 100 meters (see notes on "**Positioning" and "868 MHz Reception**").

IMPORTANT!

Transmission problems will arise if the setting for additional sensors is not followed as described above. Should transmission problems occur, it is necessary to remove the batteries from all units and start again the set-up from step 1.

FUNCTION KEYS:

Weather station:

The weather station has four easy to use function keys:

SET key (Setting):

- To enter the set mode for the following functions: LCD contrast, Time zone, Time Reception ON/OFF, 12/24 hour display, Manual time, Year, Date, ℃/℉, and W eather forecasting icon sensitivity settings.

Note: The year can be displayed in the set mode (not displayed in normal mode)

IN key (Indoor)

- To toggle between the current/ minimum / maximum indoor temperature and humidity
- To press for over 3 seconds to reset the indoor maximum and minimum temperature and humidity records (will reset all records to current level)

Note: The Time/date information is only available for MIN/MAX temperature data, and will be changed to default time after the reset operation

- To change LCD contrast, time zone, Time Reception ON/OFF, 12/24 hour display, hour, year, month, day, ℃/℉ and weather forecasting icon sensitivity in s etting modes

Note: in 24hr time display mode, the day is set by using the IN key. In 12hr time display mode, the month is set by using the IN key

OUT key (Outdoor)

- To toggle between the current/ minimum/ maximum outdoor temperature and humidity
- Press for around 3 seconds to reset the outdoor maximum and minimum temperature and humidity records (will reset all records to current level of the relative transmitter being reset- each transmitter's data must be reset separately)

Note: The time/date information of MIN/MAX temperature will be reset to default time as well.

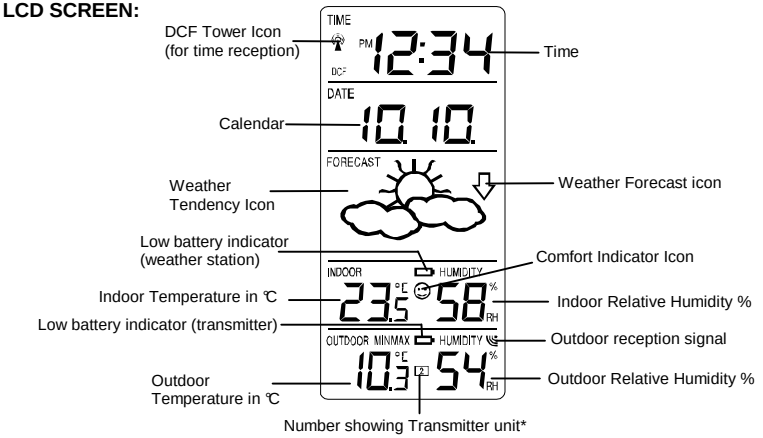
- To change minute, day, month units in setting modes

Note: in 24hr time display mode, the month is set by using the OUT key. In 12hr time display mode, the day is set by using the OUT key

CH key (Channel)

- To toggle between the Thermo-Hygro outdoor transmitters 1, 2 and 3 (if more than 1 transmitter is used)
- To exit manual setting mode

LCD SCREEN:



* When the signal is successfully received by the Weather Station, the outdoor transmission icon will be switched on. (If not successful, the icon will not be shown on LCD). The user can then easily see whether the last reception

was successful (icon on) or not (icon off). On the other hand, the short blinking of the icon shows that a reception is currently taking place.

For better distinctness the LCD screen is split into 5 sections displaying the information for time, date, weather forecast, indoors and outdoors.

LCD1 RADIO CONTROLLED TIME

- In normal mode display of radio controlled time.
- A reception tower symbol in the upper left hand corner of LCD 1 of the display indicates that the DCF-77 time signal is scanned for (flashing) or received (steady).
- In setting mode display of manual setting values.

LCD 2 - CALENDAR

- Display date and month.
- In setting mode display of a variety of references and setting values

LCD 3 - WEATHER FORECAST AND WEATHER ICONS

- Display of the weather to be expected in form of three weather symbols and two weather tendency indicators in form of an arrow, which change their appearance depending on the air pressure development.

LCD 4 - INDOOR TEMPERATURE AND HUMIDITY

- In normal mode, on the left, display of the current indoor temperature.
- In normal mode, on the right, display of the current indoor relative humidity.
- By pressing the “IN” key, display of the stored MIN/MAX indoor temperature and humidity with simultaneous display of a MIN or MAX symbol in the upper center.
- In normal mode, display of comfort indicator.

- Display of low battery indicator. A small battery symbol on the upper right side indicates low running batteries.

LCD5 - OUTDOOR TEMPERATURE AND HUMIDITY

- In normal mode, on the left, display of the current outdoor temperature.
- In normal mode, on the right, display of the current outdoor relative humidity.
- By pressing the “OUT” key, display of the stored MIN/MAX outdoor temperature and humidity with simultaneous display of a MIN or MAX symbol in the upper center.
- By pressing the “CH” key, display of outdoor sensors (up to three outdoor transmitters) 1, 2 or 3 in the center will indicate from which sensor the current reading originates.
- Display of low battery indicator. A small battery symbol on the upper right side indicates low running batteries.
- An antenna symbol in the upper center indicates that a signal is received from the transmitter(s).

DCF-77 RADIO CONTROLLED TIME:

The time base for the radio controlled time is a Cesium Atomic Clock operated by the Physikalisch Technische Bundesanstalt Braunschweig which has a time deviation of less than one second in one million years. The time is coded and transmitted from Mainflingen near Frankfurt via frequency signal DCF-77 (77.5 kHz) and has a transmitting range of approximately 1,500 km. Your radio-controlled Weather Station receives this signal and converts it to show the precise time in summer or wintertime. The quality of the reception depends greatly on the geographic location. In normal cases, there should be no reception problems within a 1,500km radius around Frankfurt.

Once the outdoor temperature and humidity are displayed on the Weather station after initial set-up, the DCF tower icon in the clock display will start flashing in the upper left corner. This indicates that the clock has detected that there is a radio signal present and is trying to receive it. When the time code is received, the DCF tower becomes permanently lit and the time will be displayed.

DCF reception is done twice daily at 02:00 and 03:00 am. If the reception is not successful at 03:00 am, then the next reception takes place the next hour and so on until 06:00am, or until the reception is successful. If the reception is not successful at 06:00 am, then the next attempt will take place the next day at 02:00 am.

If the tower icon flashes, but does not set the time or the DCF tower does not appear at all, then please take note of the following:

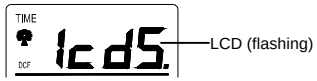
- Recommended distance to any interfering sources like computer monitors or TV sets is a minimum of 1.5 - 2 metres.
- Within ferro-concrete rooms (basements, superstructures), the received signal is naturally weakened. In extreme cases, please place the unit close to a window and/or point its front or back towards the Frankfurt transmitter.
- During nighttime, the atmospheric disturbances are usually less severe and reception is possible in most cases. A single daily reception is adequate to keep the accuracy deviation below 1 second.

MANUAL SETTINGS:

The following manual settings can be changed when pressing the SET key for:

- LCD contrast setting
- Time zone setting
- Time reception ON/OFF setting
- 12/24-Hour setting
- Manual time setting
- Calendar setting
- ℃/℉ setting
- Weather forecasting icon sensitivity setting

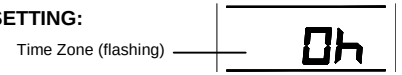
LCD CONTRAST SETTING



The LCD contrast can be set to 8 different levels to suit the users needs (default LCD contrast setting is LCD 5). To set the desired contrast level:

1. Press the IN key to select the level of contrast desired.
2. Press the SET key to confirm and enter the **"Time Zone setting"** or exit the setting mode by pressing the CH key

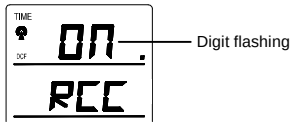
TIME ZONE SETTING:



The time zone default of the Weather Station is 0. To change to another time zone:

1. Press the SET key after completing the LCD contrast setting in order to enter the time zone setting (flashing).
2. Using the IN key, set the time zone. The range runs from 0 to +12 and then runs from -12 back to 0 in consecutive 1hour intervals.
3. Press the SET key to confirm and enter the **"Time Reception ON/OFF setting"** or exit the setting mode by pressing the CH key

TIME RECEPTION ON/OFF SETTING

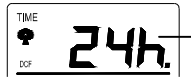


In area where reception of the DCF-77 time is not possible, the DCF-77 time reception function can be turned OFF. The clock will then work as a normal Quartz clock. (Default setting is ON).

1. The digit “ON” will start flashing on the LCD.
2. Use the IN key to turn OFF the time reception function.
3. Confirm with the SET key and enter the **“12/24-Hour Display setting”** or exit the setting mode by pressing the CH key.

Note:
If the Time Reception function is turned OFF manually, the clock will not attempt any reception of the DCF time as long as the Time Reception OFF function is activated. The Time Reception and DCF icons will not be displayed on the LCD.

12/24 HOUR TIME DISPLAY SETTING



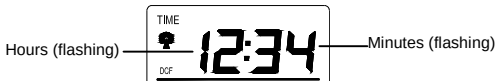
“24” flashing

1. After setting time reception ON/OFF, press the SET key, “12h” or “24h” flashes in the LCD.
2. Press the IN key to select the “12h” or “24h” display mode.
3. Press the SET again to confirm and to enter the **“Manual Time setting”** or exit the setting mode by pressing the CH key.

Note: When 24h mode display is selected, the calendar format will be date and month display.
When 12h mode display is selected, the calendar format will be month and date display.

MANUAL TIME SETTING

In case the Weather Station is not able to detect the DCF-signal (disturbances, transmitting distance, etc.), the time can be manually set. The clock will then work as a normal Quartz clock.



To set the clock:

1. The hour and minute digits start flashing in the time display section.
2. Use the IN key to adjust the hours and the OUT key to adjust the minutes. If you hold the key while you adjust, the hours move 1 hour and the minutes move 5 minutes.
3. Confirm with the SET key and enter the **"Calendar Setting"** or exit the setting mode by pressing the

Note:

The unit will still try and receive the signal despite it being manually set. When it does receive the signal, it will change the manually set time into the received time. During reception attempts the DCF tower icon will flash. If reception has been unsuccessful, then the DCF tower icon will not appear but reception will still be attempted the following day.

CALENDAR SETTING

The date default of the Weather station is 1. 1. of the year 2006 after initial set-up. Once the radio-controlled time signals are received, the date is automatically updated. However, if the signals are not received, the date can also be set manually. To do this:

1. Using the IN key, set the year required. The range runs from 2003 to 2029 (default is 2006).
2. Press the SET key to enter the month and date setting mode.

3. Press the IN (or OUT) key to set the date and the OUT (or IN) key to set the month required.
4. Confirm with the SET key and exit the setting mode by pressing the CH key twice.

Note: Skip the SNOOZE function, as it is not available in France's model.

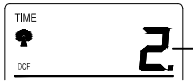
℃/℉ TEMPERATURE DISPLAY SETTING

The default temperature reading is set to ℃ (degre e Celsius). To select ℉ (degree Fahrenheit):

1. The "℃" will be flashing, use the IN key to tog gle between "℃" and "℉".
2. Once the desired temperature unit has been chosen, confirm with the SET key and enter the "**Weather Forecast Icon Sensitivity setting**" or exit the setting mode by pressing the CH key.

WEATHER FORECASTING ICON SENSITIVITY SETTING

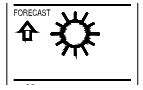
For locations with rapid changes of weather conditions, the threshold can be set to a different level for faster display of weather conditions.



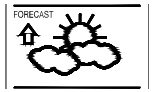
1. Using the IN key to set the weather sensitivity level. There are 3 levels of setting: 1, 2 and 3; level 1 is the most sensitive setting, level 3 is the least sensitive setting (default setting is "2").
2. Confirm with the SET key and exit the **Manual settings**.

WEATHER FORECAST AND TENDENCY:

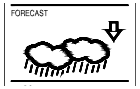
The weather forecasting icons:
There are 3 weather icons in the third section of LCD which can be displayed in any of the following combinations:



Sunny



Cloudy with sunny intervals



Rainy

For every sudden or significant change in the air pressure, the weather icons will update accordingly to represent the change in weather. If the icons do not change, then it means either the air pressure has not changed or the change has been too slow for the Weather station to register. However, if the icon displayed is a sun or raining cloud, there will be no change of icon if the weather gets any better (with sunny icon) or worse (with rainy icon) since the icons are already at their extremes.

The icons displayed forecasts the weather in terms of getting better or worse and not necessarily sunny or rainy as each icon indicates. For example, if the current weather is cloudy and the rainy icon is displayed, it does not mean that the product is faulty because it is not raining. It simply means that the air pressure has dropped and the weather is expected to get worse but not necessarily rainy.

Note:
After setting up, readings for weather forecasts should be disregarded for the next 12-24 hours. This will allow sufficient time for the Weather Station to collect air pressure data at a constant altitude and therefore result in a more accurate forecast.
Common to weather forecasting, absolute accuracy cannot be guaranteed. The weather forecasting feature is estimated to have an accuracy level of about 75% due to the varying areas the Weather Station has been designed for use in. In areas that experience sudden changes in weather (for example from sunny to rain), the Weather

Station will be more accurate compared to use in areas where the weather is stagnant most of the time (for example mostly sunny).

If the Weather Station is moved to another location significantly higher or lower than its initial standing point (for example from the ground floor to the upper floors of a house), remove the batteries and re-insert them after about 30 seconds. By doing this, the Weather Station will not mistake the new location as being a possible change in air-pressure when really it is due to the slight change of altitude. Again, disregard weather forecasts for the next 12 to 24 hours as this will allow time for operation at a constant altitude.

THE WEATHER TENDENCY INDICATOR

Working together with the weather icons are the weather tendency indicators (located on the left and right hand side of the weather icons). When the indicator points upwards, it means that the air-pressure is increasing and the weather is expected to improve, but when indicator points downwards, the air-pressure is dropping and the weather is expected to become worse.

Taking this into account, one can see how the weather has changed and is expected to change. For example, if the indicator is pointing downwards together with cloud and sun icons, then the last noticeable change in the weather was when it was sunny (the sun icon only). Therefore, the next change in the weather will be the cloud with rain icons since the indicator is pointing downwards.

Note:
Once the weather tendency indicator has registered a change in air pressure, it will remain permanently visualized on the LCD.

INDOOR TEMPERATURE AND HUMIDITY READING WITH COMFORT LEVEL INDICATOR:

The indoor temperature and humidity are measured automatically and displayed on the fourth section of the LCD.

THE COMFORT LEVEL INDICATORS:

Comfortable: A happy face icon "☺" indicating a temperature level between 20.0℃ and 25.9℃ (68℉ to 78.6℉ and humidity between 45% and 65%.

Uncomfortable: A sad face icon "☹" indicating any value outside the comfortable range.

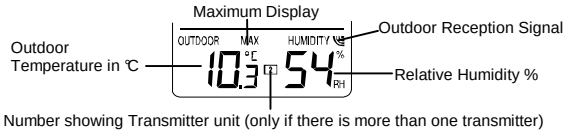
TOGGLING AND RESETTING THE INDOOR RECORDINGS:

1. To toggle between the indoor current, minimum and maximum temperature and humidity data and the times at which they were recorded, press the IN key:
   Once to show the minimum temperature and humidity values with time and date recorded
   Twice to show the maximum temperature and humidity values with time and date recorded
   Three times to return to the current time, date, temperature and humidity levels.

Note: *The Time/date information is only available for the MIN/MAX temperature data.*

2. To reset the minimum and maximum temperature and humidity data and the times at which they were recorded, press the IN key continuously for about 3 seconds. This will reset all minimum and maximum data recorded to the current time, date, temperature and humidity. The min/max temperatures and humidity recorded are of current time and they remain unaffected by the time zone setting.

OUTDOOR TEMPERATURE AND HUMIDITY:



The last LCD section shows the outdoor temperature and humidity, a reception signal and a number beside the temperature will also show if more than one transmitter has been used.

TOGGLING AND RESETTING THE OUTDOOR RECORDINGS:

1. To toggle between the outdoor current, minimum and maximum temperature and humidity data and the times at which they were recorded, press the OUT key:
   Once to show the minimum temperature and humidity values with time and date recorded
   Twice to show the maximum temperature and humidity values with time and date recorded
   Three times to return to the current time, date, temperature and humidity levels
   Note: *the time/date information is only available for MIN/MAX temperature data.*
2. To toggle between transmitters, press the CH key:
   Once to show transmitter 2
   Twice to show transmitter 3
   Three times to return to transmitter 1

Note: **The transmitter number will only be displayed if there is more than one transmitter detected**.

3. To reset the minimum and maximum temperature and humidity data, and the times at which they were recorded, press the OUT key continuously for about 3 seconds. This will reset all minimum and maximum data recorded to the current time, date, temperature and humidity. The current time taken is the normal displayed time and does not regard the time zone set for the unit.

Note: The MIN/MAX data for each transmitter needs to be reset separately.

TO VIEW THE MIN/MAX DATA FROM DIFFERENT TRANSMITTERS

When more than 1 transmitter used:

1. To toggle between transmitters, press the CH key:
   Once to show transmitter 2
   Twice to show transmitter 3
   Three times to return to transmitter 1
2. Use OUT key to view the MIN/MAX temperature and humidity data for the selected transmitter.
3. To reset the minimum and maximum temperature and humidity data, and the times at which they were recorded, press the SET key continuously for about 3 seconds. This will reset the MIN/MAX data recorded to the current time, date, temperature and humidity. The current time taken is the normal displayed time and does not regard the time zone set for the unit.

Note: the MIN/MAX data for each transmitter needs to be reset separately.

LOW BATTERY INDICATOR

Low battery indicator is displayed on the LCD when the batteries require changing.

THERMO-HYGRO OUTDOOR TRANSMITTER:

The temperature and humidity are measured and transmitted every 4 seconds.
The range of the Thermo-Hygro outdoor transmitter may be affected by the temperature. At cold temperatures the transmitting distance may be decreased. Please bear this in mind when placing the transmitter.

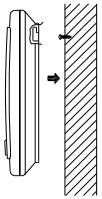
868MHz RECEPTION CHECK

If the outdoor temperature and humidity data are not being received within three minutes after setting up (or outdoor display always show “- -. -” in the outdoor section of the Weather station during normal operation), please check the following points:

1. The distance of the weather station or transmitter should be at least 1.5 to 2 meters away from any interfering sources such as computer monitors or TV sets.
2. Avoid positioning the Weather Station onto or in the immediate proximity of metal window frames.
3. Using other electrical products such as headphones or speakers operating on the same signal frequency (868MHz) may prevent correct signal transmission and reception.
4. Neighbours using electrical devices operating on the 868MHz signal frequency can also cause interference.

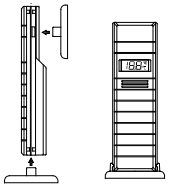
Note:
When the 868MHz signal is received correctly, do not re-open the battery cover of either the transmitter or Weather Station, as the batteries may spring free from the contacts and force a false reset. Should this happen accidentally then reset all units (see **Setting up** above) otherwise transmission problems may occur.
The transmission range is about 100 m from the transmitter to the Weather Station (in open space). However, this depends on the surrounding environment and interference levels. If no reception is possible despite the observation of these factors, all system units have to be reset (see **Setting up**).

POSITIONING THE WEATHER STATION:



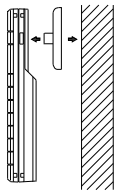
The Weather Station comes attached with removable table stand, which provides the option of table standing or wall mounting the unit. Before wall mounting, please check that the outdoor temperature and humidity values can be received from the desired locations. To wall mount:

1. Fix a screw (not supplied) into the desired wall, leaving the head extended out the by about 5mm.
2. Remove the stand from the Weather Station by pulling it way from the base and hang it onto the screw. Remember to ensure that it locks into place before releasing.



POSITIONING THE THERMO-HYGRO OUTDOOR TRANSMITTER

The Transmitter is supplied with a holder that may be attached to a wall with the two screws supplied. The Transmitter can also be position on a flat surface by securing the stand to the bottom to the Transmitter.



To wall mount:

1. Secure the bracket onto a desired wall using the screws and plastic anchors.
2. Clip the remote thermo-hygro transmitter onto the bracket.

Note:

Before permanently fixing the transmitter wall base, place all units in the desired locations to check that the outdoor temperature reading is receivable. In event that the signal is not received, relocate the transmitters or move them slightly as this may help the signal reception.

CARE AND MAINTENANCE:

- Extreme temperatures, vibration and shock should be avoided as these may cause damage to the unit and give inaccurate forecasts and readings.

- Precautions shall be taken when handling the batteries. Injuries, burns, or property damage may be resulted if the batteries are in contact with conducting materials, heat, corrosive materials or explosives. The batteries shall be taken out from the unit before the product is to be stored for a long period of time.
- Immediately remove all low powered batteries to avoid leakage and damage. Replace only with new batteries of the recommended type.
- When cleaning the display and casings, use a soft damp cloth only. Do not use solvents or scouring agents as they may mark the LCD and casings.
- Do not submerge the unit in water.
- Special care shall be taken when handling a damaged LCD display. The liquid crystals can be harmful to user's health.
- Do not make any repair attempts to the unit. Return them to their original point of purchase for repair by a qualified engineer. Opening and tampering with the unit may invalidate their guarantee.
- Never touch the exposed electronic circuit of the device as there is a danger of electric shock should it become exposed.
- Do not expose the units to extreme and sudden temperature changes, this may lead to rapid changes in forecasts and readings and thereby reduce their accuracy.

SPECIFICATIONS:

Temperature measuring range:

Indoor	:	-9.9ºC to +59.9ºC with 0.1ºC resolution 14.2℉ to +139.8℉ with 0.2℉ resolution (“OF.L” displayed if outside this range)
Outdoor	:	-39.9ºC to +59.9ºC with 0.1℃ resolu tion -39.8ºF to +139.8ºF with 0.2ºF resolution (“OF.L” displayed if outside this range)

Relative humidity measuring range:		
Indoor humidity range	:	1% to 99% with 1% resolution (Display “- -“ if temperature is OL.F; display “- -“ if < 1% and “99%” if > 99%)
Outdoor humidity range	:	1% to 99% with 1% resolution (Display “- -“ if outside temperature is OF.L; display 1% if < 1% and 99% if > 99%)
Interior data checking intervals		
Indoor temperature checking interval	:	every 15 seconds
Indoor humidity checking interval	:	every 20 seconds
Outdoor temperature and humidity data checking interval	:	Every 4 seconds (or every 15 minutes if data are lost and display “--.-“)
Power consumption:		
Weather station	:	3 x AA, IEC, LR6, 1.5V
Thermo-Hygro outdoor transmitter	:	2 x AA, IEC, LR6, 1.5V
Battery life	:	up to 24 months(Alkaline batteries recommended)
Dimensions (L x W x H)		
Weather Station	:	91 x 29 x 144.9mm (without stand)
Thermo-Hygro outdoor transmitter	:	38.2 x 21.2 x 128.3 mm (without wall bracket)

LIABILITY DISCLAIMER

- The electrical and electronic wastes contain hazardous substances. Disposal of electronic waste in wild country and/or in unauthorized grounds strongly damages the environment
- Please contact your local or/and regional authorities to retrieve the addresses of legal dumping grounds with selective collection
- All electronic instruments must from now on be recycled. User shall take an active part in the reuse, recycling and recovery of the electrical and electronic waste.
- The unrestricted disposal of electronic waste may do harm on public health and the quality of environment.
- This product must however not be thrown in general rubbish collection points.

- As stated on the gift box and labeled on the product, reading the “User manual” is highly recommended for the benefit of the user.
- The manufacturer and supplier cannot accept any responsibility for any incorrect readings and any consequences that occur should an inaccurate reading take place.
- This product is not to be used for medical purposes or for public information.
- This product is only designed to be used in the home as indication of the future weather and is not 100% accurate. Weather forecasts given by this product should be taken only as an indication and not as being totally accurate.
- The specifications of this product may change without prior notice.
- This product is not a toy. Keep out of the reach of children.
- No part of this manual may be reproduced without written consent of the manufacturer.

R&TTE Directive 1999/5/EC

Summary of the Declaration of Conformity: We hereby declare that this wireless transmission device does comply with the essential requirements of R&TTE Directive 1999/5/EC.